

PI3K recombinant protein

PI3K (p110 delta/p85 alpha), Active

CATALOG # AAA73065	HOST Sf9 insect cells using baculovirus	APPLICATIONS Kinase Assay
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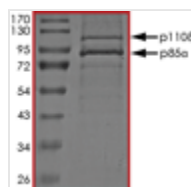
PRODUCT SYNONYMS

PI3K; PI3K (p110 delta/p85 alpha); Active; PI3K recombinant protein

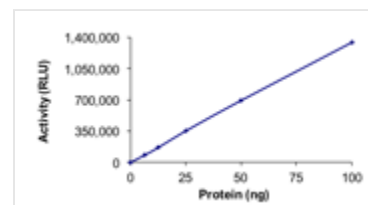
PRODUCT SPECIFICATIONS

Host	Sf9 insect cells using baculovirus
Form/Format	50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.
Sequence Positions	Full length
Sequence Length	5232
Applicable Applications for PI3K recombinant protein	Kinase Assay
Species	Human
Tag	HIS tag
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for PI3K recombinant protein	Description: Recombinant full-length human p110 delta and human p85 alpha were co-expressed by baculovirus in Sf9 insect cells using an N-terminal His tag on both proteins. Scientific Background: PI3K (p110 delta/p85 alpha) is a member of the PI3K family that phosphorylates phosphoinositides on the 3-hydroxyl group of the inositol ring (1). PI3K (p110 delta/p85 alpha) plays a role in oncogenic transformation, and is consistently expressed at a high level in blast cells from AML. PI3K (p110 delta/p85 alpha) can play a selective role in the amplification of phosphatidylinositol (3,4,5) trisphosphate (PIP3) levels that lead to neutrophil polarization, and regulates directional migration, but not random locomotion (2). PI3K (p110 delta/p85 alpha) signaling pathway is involved in immune responses relevant to the pathogenesis of rheumatoid arthritis and other inflammatory diseases.
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Product Categories/Family for PI3K recombinant protein	Enzymes; Active Lipid Kinases
References	1. Vanhaesebroeck, B. et.al: p110-delta, a novel phosphoinositide 3-kinase in leukocytes. Proc. Nat. Acad. Sci. 94: 4330-4335, 1997. 2. Chantry, D. et.al: p110-delta, a novel phosphatidylinositol 3-kinase catalytic subunit that associates with p85 and is expressed predominantly in leukocytes. J. Biol. Chem. 272: 19236-19241,1997

NCBI AND UNIPROT INFORMATION

NCBI GI #	1176461142
NCBI GeneID	5293
NCBI Accession #	NM_005026.4
NCBI GenBank Nucleotide #	NM_005026
UniProt Accession #	O00329 ; O15445 ; Q5SR49 ; A6NCG0 ; G1FFP1
Molecular Weight	~111 kDa; ~86 kDa
NCBI Official Full Name	Homo sapiens phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit delta (PIK3CD), transcript variant 1, mRNA
NCBI Official Synonym Full Names	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit delta
NCBI Official Symbol	PIK3CD
NCBI Official Synonym Symbols	APDS; PI3K; IMD14; p110D; P110DELTA
NCBI Protein Information	phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit delta isoform
UniProt Protein Name	Phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit delta isoform
UniProt Gene Name	PIK3CD
UniProt Synonym Gene Names	PI3-kinase subunit delta; PI3K-delta; PI3Kdelta; PtdIns-3-kinase subunit delta; PtdIns-3-kinase subunit p110-delta; p110delta

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.